



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2ARG-P43-8TW-A-PoE 4000k AMBIENT ONLY
 [_SEARCH_SOURCE TYPE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4255	4252	4410
55	3532	3805	3945
65	2753	3167	2611
75	2047	2039	1515
85	1315	1003	810

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1892.514	1892.514	1892.514	1892.514	1892.514
2.5	1891.344	1887.834	1886.214	1890.354	1892.604
5.0	1886.124	1881.623	1878.203	1879.283	1881.443
7.5	1874.693	1868.122	1863.442	1862.181	1859.751
10.0	1856.781	1849.220	1840.399	1837.069	1834.279
12.5	1832.479	1824.558	1812.947	1805.566	1799.716
15.0	1800.616	1792.155	1777.844	1767.493	1760.202
17.5	1762.542	1751.921	1736.080	1724.379	1716.008
20.0	1717.448	1706.107	1688.105	1675.414	1665.783
22.5	1666.143	1653.452	1634.911	1622.489	1613.399
25.0	1610.428	1595.577	1575.325	1564.524	1556.423
27.5	1550.933	1534.191	1513.849	1506.019	1500.078
30.0	1488.917	1471.456	1451.924	1446.073	1442.293
32.5	1422.941	1405.299	1387.478	1385.588	1383.067
35.0	1351.744	1335.363	1320.242	1323.932	1323.572
37.5	1275.777	1261.376	1250.035	1257.686	1260.296
40.0	1197.110	1184.419	1177.218	1190.090	1195.850
42.5	1113.943	1104.492	1102.692	1121.683	1132.214
45.0	1028.165	1021.954	1027.355	1052.917	1065.518
47.5	942.657	942.027	952.378	984.781	999.092
50.0	857.239	862.909	881.091	918.085	927.355
52.5	773.801	785.232	812.595	848.328	853.279
55.0	692.344	709.715	745.899	772.271	773.261
57.5	613.767	635.639	679.293	689.373	667.321
60.0	537.529	563.722	609.356	586.764	566.872
62.5	464.713	494.866	537.710	496.666	468.673
65.0	397.567	431.140	457.332	408.278	377.045
67.5	335.371	370.744	377.585	324.030	297.477
70.0	279.116	314.849	306.388	252.653	230.601
72.5	227.361	260.484	239.422	192.438	176.146
75.0	181.007	206.389	180.377	144.823	134.022
77.5	138.703	154.904	130.242	107.290	100.809
80.0	101.259	109.720	90.008	76.957	73.357
82.5	68.136	69.486	56.975	50.225	47.254
85.0	39.154	36.183	29.883	26.282	24.122
87.5	13.771	11.431	10.441	10.621	10.531
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES****CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.090	0.000	0.090
152.5	0.000	0.000	0.090	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.180	0.090	0.000	0.360	0.090
160.0	0.090	0.000	0.270	0.180	0.090
162.5	0.360	0.090	0.090	0.090	0.270
165.0	0.090	0.090	0.270	0.180	0.360
167.5	0.360	0.090	0.180	0.180	0.090
170.0	0.090	0.090	0.270	0.180	0.180
172.5	0.000	0.090	0.360	0.450	0.000
175.0	0.270	0.000	0.180	0.270	0.360
177.5	0.270	0.180	0.270	0.270	0.090
180.0	0.270	0.270	0.270	0.270	0.270

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	679.19	N.A.	15.60
0-30	1406.41	N.A.	32.40
0-40	2236.52	N.A.	51.50
0-60	3695.87	N.A.	85.10
0-80	4302.33	N.A.	99.10
0-90	4342.1	N.A.	100.00
10-90	4163.77	N.A.	95.90
20-40	1557.33	N.A.	35.90
20-50	2357.77	N.A.	54.30
40-70	1878.66	N.A.	43.30
60-80	606.45	N.A.	14.00
70-80	187.15	N.A.	4.30
80-90	39.77	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.10	N.A.	0.00
0-180	4342.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.32
10-20	500.86
20-30	727.22
30-40	830.11
40-50	800.44
50-60	658.92
60-70	419.30
70-80	187.15
80-90	39.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.03
160-170	0.05
170-180	0.02

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	190	190	190	190	186	186	186	186	178	178	178	170	170	170	163	163	163	160
1	176	169	163	157	172	165	160	155	159	154	150	152	149	145	147	144	141	138
2	161	149	139	131	157	146	137	129	141	133	126	135	129	123	131	125	121	117
3	148	132	120	111	144	130	119	110	125	116	108	121	113	106	117	110	104	101
4	136	118	105	95	133	116	104	94	112	101	93	108	99	92	105	97	91	87
5	126	106	93	83	122	104	92	82	101	90	81	98	88	80	95	86	80	76
6	116	96	82	73	113	95	82	72	92	80	72	89	79	71	87	78	71	67
7	108	87	74	65	105	86	73	64	84	72	64	82	71	64	79	70	63	60
8	101	80	67	58	98	79	67	58	77	66	58	75	65	57	73	64	57	54
9	94	74	61	53	92	73	61	52	71	60	52	69	59	52	68	58	52	49
10	89	68	56	48	87	67	56	48	66	55	48	64	54	47	63	54	47	44

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARG-P43-8TW-A-POE 4000K AMBIENT ONLY_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

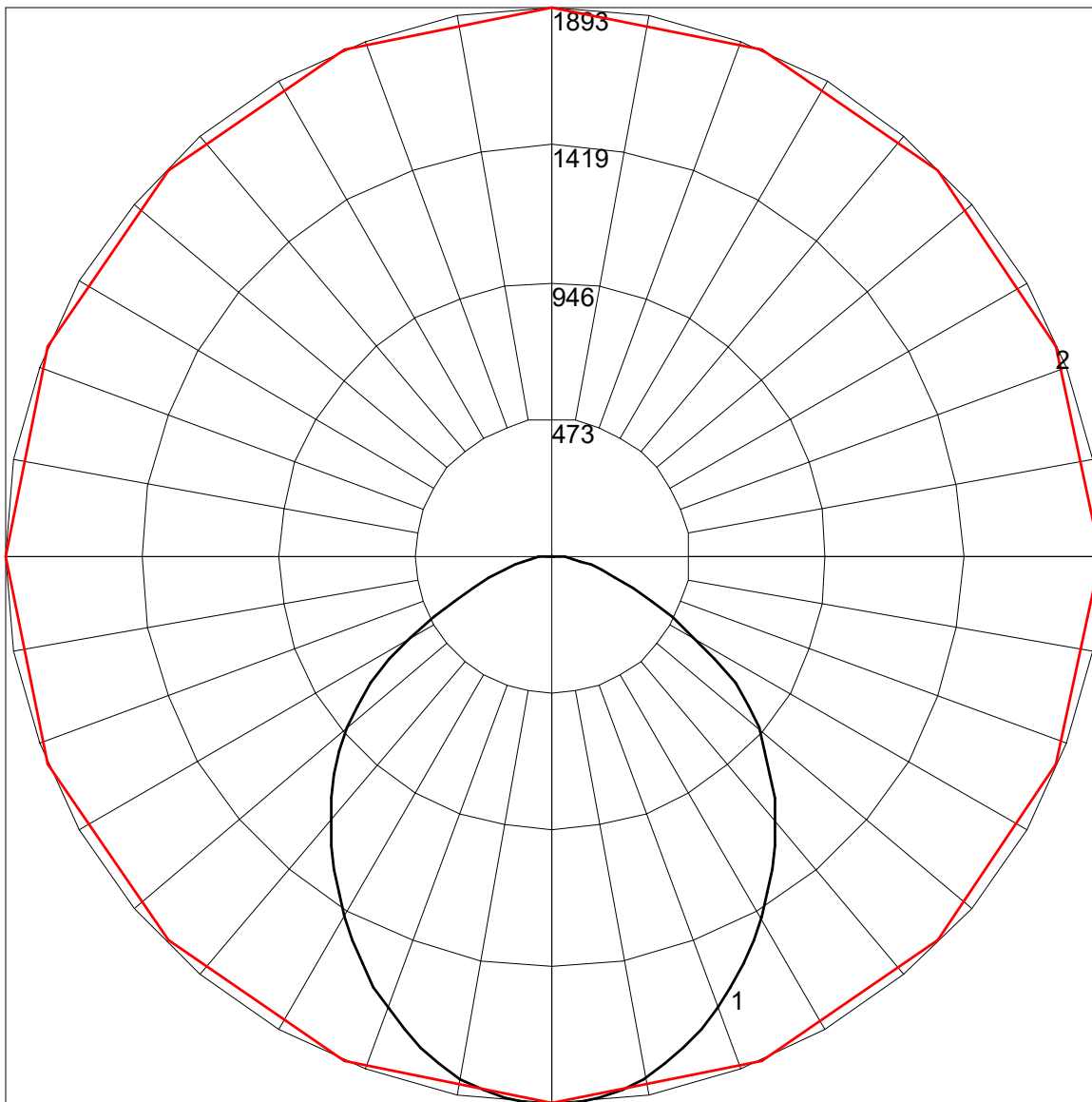
X=2H	Y=2H	14.5	16.1	14.9	16.4	16.7	15.1	16.6	15.4	16.9	17.2
	3H	15.9	17.3	16.2	17.6	17.9	15.9	17.3	16.3	17.6	18.0
	4H	16.3	17.6	16.7	18.0	18.3	16.1	17.4	16.5	17.8	18.2
	6H	16.6	17.8	17.0	18.2	18.6	16.3	17.5	16.7	17.8	18.2
	8H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2
	12H	16.7	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2

UGR Viewed Endwise

4H	2H	15.1	16.4	15.5	16.8	17.2	15.6	16.9	16.0	17.2	17.6
	3H	16.7	17.7	17.1	18.1	18.6	16.6	17.7	17.0	18.1	18.5
	4H	17.2	18.2	17.7	18.6	19.1	16.9	17.9	17.3	18.3	18.7
	6H	17.6	18.5	18.1	18.9	19.4	17.1	17.9	17.5	18.4	18.8
	8H	17.7	18.5	18.2	19.0	19.4	17.1	17.9	17.6	18.4	18.8
	12H	17.8	18.5	18.3	19.0	19.4	17.1	17.9	17.6	18.3	18.8
8H	4H	17.4	18.2	17.8	18.6	19.1	17.1	17.9	17.5	18.3	18.8
	6H	17.8	18.5	18.3	19.0	19.5	17.3	18.0	17.8	18.5	18.9
	8H	18.0	18.6	18.5	19.1	19.6	17.4	18.0	17.9	18.5	19.0
	12H	18.1	18.6	18.6	19.1	19.7	17.4	18.0	18.0	18.5	19.0
12H	4H	17.4	18.1	17.9	18.6	19.0	17.1	17.8	17.6	18.3	18.7
	6H	17.9	18.4	18.4	18.9	19.5	17.4	17.9	17.9	18.4	18.9
	8H	18.0	18.6	18.5	19.0	19.6	17.5	18.0	18.0	18.5	19.0

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1892.604 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)